

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	532	(546/121).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/02 13:13
L2	1	l1 and dihydropyrano and imidazo and pyridine and derivative!	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/02 13:17
L3	295	(546/83).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/02 13:17
L4	1	l3 and dihydropyrano and imidazo and pyridine and derivative!	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/02 13:17

10/582,609

10/582,609

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2289	(544/333).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/02 16:30
L2	0	I1 and dihydropyrano and imidazo and pyridine and derivative!	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/02 16:31
L3	0	I1 and dihydropyrano and pyridine and derivative!	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/02 16:31
L4	0	I1 and dihydropyrano and pyridine	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/02 16:31
L5	0	I1 and dihydropyrano! and pyridine	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/02 16:32
L6	0	I1 and dihydropyrano!	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/02 16:32
L7	611	I1 and protecting adj group	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/02 16:32
L8	433	I7 and pyrimidinyl	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/02 16:33
L9	4	I8 and gastric adj acid adj secretion	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/02 16:36
L10	524	(544/127).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/02 16:36
L11	0	I10 and dihydropyrano and imidazo and pyridine	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/02 16:38
L12	12	I10 and gastric adj acid adj secretion	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/02 16:38
L13	12	I12 and inhibition	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/02 16:39
L14	12	I12 and salt!	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/02 16:39

10/582609
formula (s)
+ Capreact

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=> file reg
COST IN U.S. DOLLARS
FULL ESTIMATED COST
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
CA SUBSCRIBER PRICE

SINCE FILE ENTRY	TOTAL SESSION
37.86	212.69
-4.68	-4.68

FILE 'REGISTRY' ENTERED AT 11:06:20 ON 02 APR 2007
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 1 APR 2007 HIGHEST RN 928822-97-3
DICTIONARY FILE UPDATES: 1 APR 2007 HIGHEST RN 928822-97-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

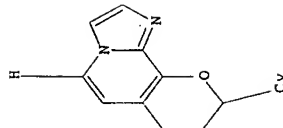
=> Uploading C:\Program Files\Stnexp\Queries\new10582609.str

L7 STRUCTURE UPLOADED

=> d l7
L7 HAS NO ANSWERS
L7 STR

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Structure attributes must be viewed using STN Express query preparation.

=> s l7
SAMPLE SEARCH INITIATED 11:06:48 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 56 TO ITERATE
100.0% PROCESSED 56 ITERATIONS
SEARCH TIME: 00.00.01

11 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 672 TO 1568
PROJECTED ANSWERS: 22 TO 418

L8 11 SEA SSS SAM L7

=> s l7 full
FULL SEARCH INITIATED 11:06:52 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1143 TO ITERATE

100.0% PROCESSED 1143 ITERATIONS
SEARCH TIME: 00.00.01

189 ANSWERS

L9 189 SEA SSS FUL L7

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
172.10	384.79

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY	TOTAL SESSION
0.00	-4.68

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FILE COVERS 1907 - 2 Apr 2007 VOL 146 ISS 15
FILE LAST UPDATED: 1 Apr 2007 (20070401/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s 19 25 L9

=> s 19 full
L11 25 L9

=> process and l11

PROCESS IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=).

=> s 110 and process

2402461 PROCESS
1634263 PROCESSES
3585858 PROCESS
(PROCESS OR PROCESSES)

L12 1 L10 AND PROCESS

=> s 19 full
L13 25 L9

=> s 113/prep

FIELD CODES CANNOT BE CHANGED HERE.
You may have tried to apply a field code to a term that already has a field code. You can only add a field code to a term that has no field code appended to it.

=> s 19/prep full
25 L9

L14 4381572 PREP/RL
17 L9/REP
(L9 (L) PREP/RL)

=> s 114 and cycliz?

L15 167765 CYCLIZ?
2 L14 AND CYCLIZ?

=> d ibib abs hitstr tot

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L15 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1989:477237 CAPLUS
DOCUMENT NUMBER: 111:77237

TITLE: Antiulcer agents. 4. Conformational considerations and the antiulcer activity of substituted imidazo[1,2-a]pyridines and related analogs

AUTHOR(S):

Kaminski, James J.; Puchalski, Chester; Solomon, Daniel M.; Rizvi, Razia K.; Conn, David J.; Elliott, Arthur J.; Lovey, Raymond G.; Guzik, Henry; Chiu, P. J. S.; et al.

CORPORATE SOURCE:

Pharm. Res. Div., Schering Res., Bloomfield, NJ,

SOURCE:

Journal of Medicinal Chemistry (1989), 32(8), 1686-700

CODEN: JMCWAR; ISSN: 0022-2623

DOCUMENT TYPE:

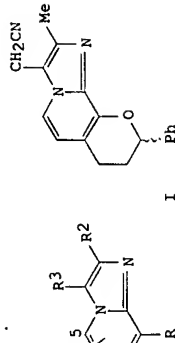
Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 111:77237



AB

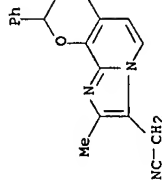
Definition of the interrelationship between the conformational characteristics of a series of substituted imidazo[1,2-a]pyridines and their antiulcer activity was investigated by examining the conformational properties of imidazo[1,2-a]pyridine I [R = PhCH₂O, R₁ = H, R₂ = Me, R₃ = CH₂CN (II)], by using a variety of exptl. and theor. methods. The result of these studies was the identification of two distinctly different candidates, designated the folded and the extended conformation, resp., to represent the two possible min.-energy conformations of II. In order to select the biol. relevant conformer, a group of 3-substituted 2-methylimidazo[1,2-a]pyridines, having either a cis- or a trans-2-phenylethynyl substituent at the 8-position, were designed as resp. candidate conformers. Gastric antisecretory activity was found to reside only in the trans isomers I (R = trans-PhCH₂CH, R₁ = H, R₂ = Me; R₃ = Me, CH₂CN, NH₂), which mimic the extended conformation. This observation led to the construction of imidazo[1,2-a]pyrano[2,3-c]pyridine-3-acetonitrile (III), a rigid tricyclic analog that is effectively locked in the extended conformation and that exhibited an antiulcer profile comparable to that of prototype II. These results unequivocally demonstrate that, in accord with expectation for a drug operating at a specific receptor, the conformational characteristics of the mol. have a substantial effect in determining its antiulcer activity. More precisely, it has been demonstrated that it is the extended conformation of II that represents the bioactive form of the drug. These results constitute the basis for a mol. probe that should aid in the investigation of the as yet uncharacterized gastric proton pump enzyme (H⁺/K⁺-ATPase), by means of

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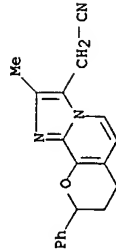
50613257

which II and its analogs presumably exert their pharmacol. actions.

IT 93749-57-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 RN 93749-57-6 CAPLUS
 CN 7H-Imidazo[1,2-a]pyrano[2,3-c]pyridine-3-acetonitrile,
 8,9-dihydro-2-methyl-9-phenyl- (9CI) (CA INDEX NAME)



IT 93749-61-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and gastric antisecretory and cytoprotective activity of)
 RN 93749-61-2 CAPLUS
 CN 7H-Imidazo[1,2-a]pyrano[2,3-c]pyridine-3-acetonitrile,
 8,9-dihydro-2-methyl-9-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L15 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1985:6490 CAPLUS
 DOCUMENT NUMBER: 102:6490
 TITLE: Antiulcer tricyclic imidazo[1,2-a]pyridines
 INVENTOR(S): Gold, Elijah H.; Kaminski, James J.; Puchalski,
 Chester
 PATENT ASSIGNEE(S): Schering Corp., USA
 SOURCE: U.S., 8 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4468400	A	19840828	US 1982-450862	19821220

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PRIORITY APPLN. INFO.: CASREACT 102:6490; MARPAT 102:6490
 OTHER SOURCE(S):

19821220

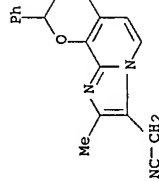
GI Tricyclic imidazopyridines I [R = H, alkyl, halo, HO, alkoxy, CF₃; R₁ = pyridyl, thienyl, imidazolyl, furanyl, (un)substituted Ph; R₂ = OH, alkyl, hydroxyalkyl, R₃ = H, alkyl, CH₂CN, hydroxyalkyl, NO, CH₂CN, NR₄R₅, R₄, R₅ = H, alkyl; Z = nonarom. 5- or 6-membered carbocycle, heterocycle; n = 0, 1, 2], useful in the treatment of peptic ulcer diseases (no data), were prepared. Thus, imidazopyridineacetonitrile II (R₆ = H) was condensed with Me₂N-CH₂I- to give II (R₆ = Me₂NCH₂), which was treated with PhR₇C-CH₂ (R₇ = 4-morpholinyl) and hydrolyzed to give II (R₆ = PhCOCH₂CH₂). The latter compound was reduced with NaBH₄ to give the diol which was cyclized with Br₃-OEt₂ to give pyranimidazopyridine III.

IT 93749-57-6P 93749-61-2P 93749-62-3P

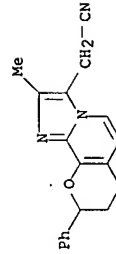
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 93749-57-6 CAPLUS
 CN 7H-Imidazo[1,2-a]pyrano[2,3-c]pyridine-3-acetonitrile,
 8,9-dihydro-2-methyl-9-phenyl- (9CI) (CA INDEX NAME)



RN 93749-61-2 CAPLUS
 CN 7H-Imidazo[1,2-a]pyrano[2,3-c]pyridine-3-acetonitrile,
 8,9-dihydro-2-methyl-9-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)

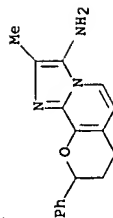


● HCl

RN 93749-62-3 CAPLUS
 CN 7H-Imidazo[1,2-a]pyrano[2,3-c]pyridine-3-amine, 8,9-dihydro-2-methyl-9-phenyl- (9CI) (CA INDEX NAME)

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=> FIL STINGUIDE	
COST IN U.S. DOLLARS	SINCE FILE TOTAL
	ENTRY SESSION
FULL ESTIMATED COST	19.86 404.65
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	
	SINCE FILE TOTAL
	ENTRY SESSION
CA SUBSCRIBER PRICE	-1.56 -6.24

FILE 'STINGUIDE' ENTERED AT 11:10:49 ON 02 APR 2007
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Mar 30, 2007 (20070330/UP).

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 DEC 18 CA/CAPLUS pre-1967 chemical substance index entries enhanced
NEWS 4 with preparation role
NEWS 5 DEC 18 CA/CAPLUS patent kind codes updated
NEWS 6 MARPAT to CA/CAPLUS accession number crossover limit increased
NEWS 7 to 50,000
NEWS 8 DEC 18 MEDLINE updated in preparation for 2007 reload
NEWS 9 DEC 27 CA/CAPLUS enhanced with more pre-1907 records
NEWS 10 CHEMIST enhanced with New Zealand Inventory of Chemicals
NEWS 11 JAN 16 CA/CAPLUS Company Name Thesaurus enhanced and reloaded
NEWS 12 JAN 16 IPC version 2007.01 Thesaurus available on STN
NEWS 13 JAN 16 WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 14 JAN 22 CA/CAPLUS updated with revised CAS roles
NEWS 15 JAN 22 CA/CAPLUS enhanced with patent applications from India
NEWS 16 PHAR reloaded with new search and display fields
NEWS 17 CAS Registry Number crossover limit increased to 300,000 in
NEWS 18 multiple databases
NEWS 19 PATDPASC enhanced with Drug Approval numbers
NEWS 20 FEB 15 RUSSAPAT enhanced with pre-1994 records
NEWS 21 FEB 15 KOREAPAT enhanced with IPC 8 features and functionality
NEWS 22 FEB 26 MEDLINE reloaded with enhancements
NEWS 23 FEB 26 EMBASE enhanced with Clinical Trial Number field
NEWS 24 FEB 26 TOXCENTER enhanced with reloaded MEDLINE
NEWS 25 FEB 26 IFTCDB/IFTPAT/IFTUDB reloaded with enhancements
NEWS 26 CAS Registry Number crossover limit increased from 10,000
NEWS 27 to 300,000 in multiple databases
NEWS 28 WPIDS/WPIX enhanced with new FRAGHTSTR display format
NEWS 29 CASREACT coverage extended
NEWS 30 MARPAT now updated daily
NEWS 31 LWPI reloaded
NEWS 32 RDISCLOSURE reloaded with enhancements
NEWS 33 INPADOCB will replace INPADOC on STN

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.00c(JP),
AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
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NEWS X25 X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that

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FILE 'HOME' ENTERED AT 11:42:35 ON 02 APR 2007

=> file casreact

COST IN U.S. DOLLARS

SINCE FILE ENTRY TOTAL
0.21 0.21

FULL ESTIMATED COST

FILE 'CASREACT' ENTERED AT 11:42:57 ON 02 APR 2007
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FILE CONTENT:1840 - 1 Apr 2007 VOL 146 ISS 15

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* CASREACT now has more than 12 million reactions *

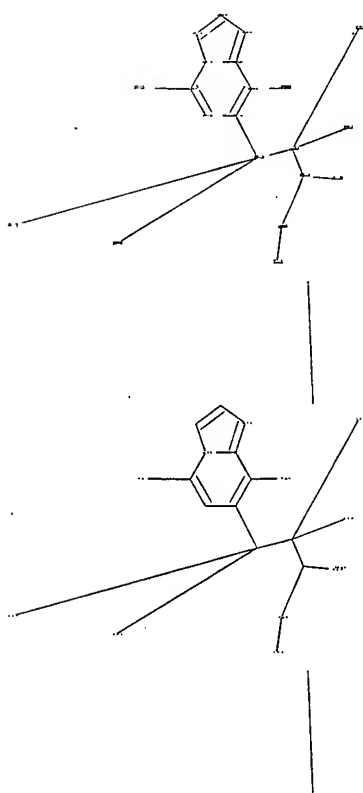
Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> Uploading C:\Program Files\Stnexp\Queries\10582609b.str

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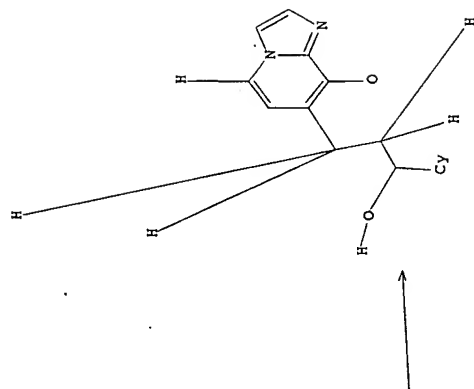
chain nodes :
10 11 13 14 15 16 17 18 19 20 21 22
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
1-11 2-15 4-22 10-13 13-14 13-16 14-15 14-18 14-19 15-20 15-21 16-17
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds :
1-2 1-6 1-11 2-3 3-4 4-5 5-6 5-7 6-9 8-9 10-13 13-16
exact bonds :
2-15 4-22 7-8 13-14 14-15 14-18 14-19 15-20 15-21 16-17
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS
20:CLASS 21:CLASS 22:CLASS
Generic attributes :
10:
Saturation : Unsaturated
fragments assigned product role:
containing 1

L1 STRUCTURE UPLOADED
=> d 11
L1 HAS NO ANSWERS
L1 STR

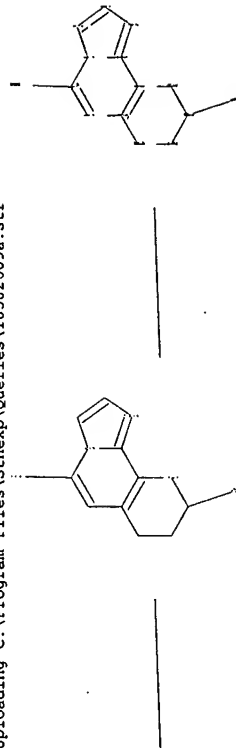
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Structure attributes must be viewed using STN Express query preparation.

=> Uploading C:\Program Files\Stnexp\Queries\10582609a.str



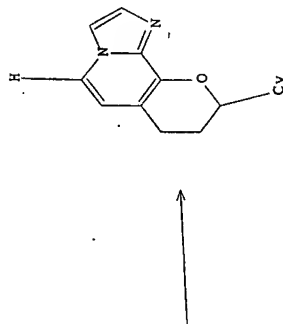
chain nodes :
11 16
ring nodes :
1 2 3 4 5 6 7 8 9 12 13 14 15
chain bonds :
4-11 13-16
ring bonds :
1-2 1-6 1-12 2-3 2-15 3-4 4-5 5-6 5-7 6-9 7-8 8-9 12-13 13-14 14-15
exact/norm bonds :

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1-2 1-6 1-12 2-3 2-15 3-4 4-5 5-6 5-7 6-9 8-9 12-13 13-14 13-16 14-15
exact bonds :
4-11 7-8
isolated ring systems :
containing 1 :
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:CLASS
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom
fragments assigned product role:
containing 1

L2 STRUCTURE UPLOADED
=> d 12
L2 HAS NO ANSWERS
L2 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11 full
FULL SEARCH INITIATED 11:45:01 FILE 'CASREACT'
SCREENING COMPLETE - 46 REACTIONS TO VERIFY FROM 6 DOCUMENTS
100.0% DONE 46 VERIFIED 0 HIT RXNS 0 DOCS
SEARCH TIME: 00.00.01
L3 0 SEA SSS FUL L1 (0 REACTIONS)
=> s 12 full
FULL SEARCH INITIATED 11:45:10 FILE 'CASREACT'
SCREENING COMPLETE - 1130 REACTIONS TO VERIFY FROM 55 DOCUMENTS
100.0% DONE 1130 VERIFIED 10 HIT RXNS 2 DOCS
SEARCH TIME: 00.00.01

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14 2 SEA SSS FUL L2 (10 REACTIONS)

=> d ibib abs fqhit tot
'FOHIT' IS NOT A VALID FORMAT FOR FILE 'CASREACT'
The following are valid formats:

ABS ----- GI and AB
ALL ----- BIB, AS, IND, RE, Single-step Reactions
APPS ----- AL, FRAI
BIB ----- AN, plus Bibliographic Data
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
DALL ----- ALL, delimited (end of each field identified)
IABS ----- ABS, indexed with text labels
IALL ----- ALL, indexed with text labels
IBIB ----- BIB, indexed with text labels
IND ----- Indexing data
IPC ----- International Patent Classifications
ISTD ----- STD, indexed with text labels
OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indexed with text labels
SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations
MAX ----- Same as ALL
PATS ----- PI, SO
SCAN ----- TI and FCRD (random display, no answer number. SCAN must be entered on the same line as DISPLAY, e.g., D SCAN.)
SSRX ----- Single-Step Reactions (Map, Diagram, and Summary for all single-step reactions)
STD ----- BIB, IPC, and NCL
CRD ----- Compact Display of All Hit Reactions
CRDREF ----- Compact Reaction Display and SO, PY for Reference
FHIT ----- Reaction Map, Diagram, and Summary for first hit reaction
FHITCBIB ----- FHIT, AN plus CBIB
FCRD ----- First hit in Compact Reaction Display (CRD) format with CA reference information (SO, PY). (Default)
FSPATH ----- PATH, plus Reaction Summary for the "long path"
HIT ----- Reaction Map, Reaction Diagram, and Reaction Summary for all hit reactions and fields containing hit terms
OCC ----- All hit fields and the number of occurrences of the hit terms in each field. Includes total number of HIT, PATH, SPATH reactions. Labels reactions that have incomplete verifications.
PATH ----- Reaction Map and Reaction Diagram for the "long path". Displays all hit reactions, except those whose steps are totally included within another hit reaction which is displayed
RX ----- Hit Reactions (Map, Diagram, Summary for all hit reactions)
RXG ----- Hit Reaction Graphics (Map and Diagram for all hit reactions)
RXL ----- Hit Reaction Long (Map, Diagram, Summary for all hit reactions)

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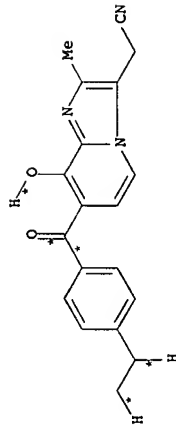
RXS ----- Hit Reaction Summaries (Map and Summary for all hit reactions)
SPATH ----- Reaction Map and Reaction Diagram for the "short path". Displays all single step reactions which contain a hit substance. Also displays those multistep reactions that have a hit substance in both the first and last steps of the reaction, except for those hit reactions whose steps are totally included within another hit reaction which is displayed

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of combinations include: D TI; D BIB RX; D TI, AU, FCRD. The information is displayed in the same order as the specification. All of the formats, except CRD, CRDREF, FHIT, PATH, FPATH, SPATH, FSPATH, FCRD, FCRDREF, HIT, RX, RXG, SCAN, and OCC, may be used with the DISPLAY command to display the record for a specified Accession Number.

ENTER DISPLAY FORMAT (FCRDREF):fhit

L4 ANSWER 1 OF 2 CASREACT COPYRIGHT 2007 ACS on STN

RX(54) OF 213 ...DT ==> DU...

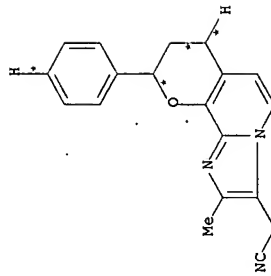


● HCl

(54) →

DT

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DU

RX(54) RCT DT 121394-50-1

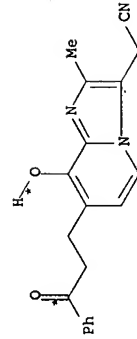
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RGT C 16940-66-2 NaBH4
SOL 64-17-5 EtOH, 75-09-2 CH2Cl2

STAGE(2)
RGT DV 109-63-7 BF3-Et2O
SOL 75-09-2 CH2Cl2

PRO DU 93749-57-6
NTE sand used in second step

L4 ANSWER 2 OF 2 CASREACT COPYRIGHT 2007 ACS on STN

RX(1) OF 3 A ==> B...



● HCl

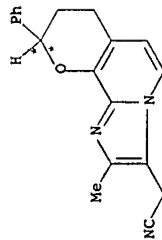
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A

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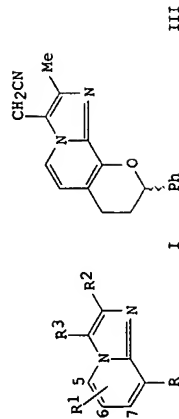


B

RX(1) RCT A 93749-59-8
PRO B 93749-57-6

=> d ibib abs fhit tot

L4 ANSWER 1 OF 2 CASREACT COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 111-77237 CASREACT
TITLE: Antiulcer agents. 4. Conformational considerations and the antiulcer activity of substituted imidazo[1,2-a]pyridines and related analogs
AUTHOR(S): Kaminski, James J.; Puchalski, Chester; Solomon, Daniel M.; Rizvi, Razia K.; Conn, David J.; Elliott, Arthur J.; Lovey, Raymond G.; Guzik, Henry; Chiu, P. J. S.; et al.
CORPORATE SOURCE: Pharm. Res. Div., Schering Res., Bloomfield, NJ, 07003, USA
SOURCE: Journal of Medicinal Chemistry (1989), 32(8), 1686-700
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



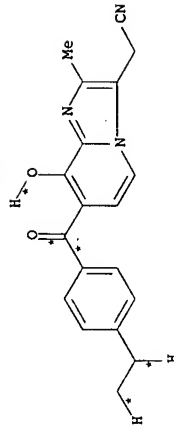
AB Definition of the interrelationship between the conformational characteristics of a series of substituted imidazo[1,2-a]pyridines and their antiulcer activity was investigated by examining the conformational properties of imidazo[1,2-a]pyridine I [R = PhCH₂O, R₁ = H, R₂ = Me, R₃ = CH₂CN (II)], by using a variety of exptl. and theor. methods. The result of these studies was the identification of two distinctly different candidates, designated the folded and the extended conformation, resp., to

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represent the two possible min.-energy conformations of II. In order to select the biol. relevant conformer, a group of 3-substituted 2-methylimidazo[1,2-a]pyridines, having either a cis- or a trans-2-phenylethyl substituent at the 8-position, were designed as conceptually simple and synthetically accessible semirigid analogs of the resp. candidate conformers. Gastric antisecretory activity was found to reside only in the trans isomers I (R = trans-PhCH₂CH₂, R₁ = H, R₂ = Me; R₃ = Me, CH₂CN, NH₂), which mimic the extended conformation. This observation led to the construction of imidazo[1,2-a]pyridine-3-acetonitrile (III), a rigid tricyclic analog that is effectively locked in the extended conformation and that exhibited an antiulcer profile comparable to that of prototype II. These results unequivocally demonstrate that, in accord with expectation for a drug operating at a specific receptor, the conformational characteristics of the mol. have a substantial effect in determining its antiulcer activity. More precisely, it has been demonstrated that it is the extended conformation of II that represents the bioactive form of the drug. These results constitute the basis for a mol. probe that should aid in the investigation of the as yet uncharacterized gastric proton pump enzyme (H⁺/K⁺-ATPase), by means of which II and its analogs presumably exert their pharmacol. actions.

RX(54) OF 213 ...DT ==> DU...



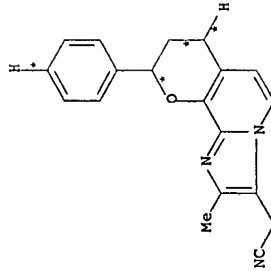
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RX(54) RCT DT 121394-50-1

STAGE(1)
RGT C 16940-66-2 NaBH4
SOL 64-17-5 EtOH, 75-09-2 CH2Cl2

STAGE(2)
RGT DV 109-63-7 BF3-Et2O
SOL 75-09-2 CH2Cl2

PRO DU 93749-57-6
NTE sand used in second step

L4 ANSWER 2 OF 2 CASREACT COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 102:6490 CASREACT
TITLE: Antiulcer tricyclic imidazo[1,2-a]pyridines
INVENTOR(S): Gold, Elijah H.; Kaminski, James J.; Fuchalski, Chester
PATENT ASSIGNEE(S): Schering Corp., USA
SOURCE: U.S., 8 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

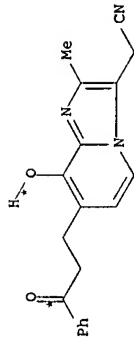
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4468400	A	19840828	US 1982-450862	19821220
OTHER SOURCE(S): GI For diagram(s), see printed CA Issue. AB Tricyclic imidazopyridines I [R = H, alkyl, halo, HO, alkoxy, CF3; R1 = pyridyl, thienyl, imidazolyl, furanyl, (un)substituted Ph; R2 = OH, alkyl, hydroxyalkyl; R3 = H, alkyl, CH2CN, hydroxyalkyl, NO, CH2NC, NR4R5; R4, R5 = H, alkyl; Z = nonarom. 5- or 6-membered carbocycle, heterocycle; n = 0, 1, 2], useful in the treatment of peptic ulcer diseases (no data), were				

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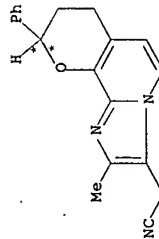
prepared. Thus, imidazopyridineacetonitrile II (R6 = H) was condensed with Me2N+CH2I- to give II (R6 = Me2NCH2), which was treated with PhR7C:CH2 (R7 = 4-morpholinyl) and hydrolyzed to give II (R6 = PhCOCH2CH2). The latter compound was reduced with NaBH4 to give the diol which was cyclized with BF3·OEt2 to give pyranolimidazopyridine III.

RX(1) OF 3 A ==> B...



● HCl

A (1) →



B

RX(1) RCT A 93749-59-8
PRO B 93749-57-6

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(FILE 'HOME' ENTERED AT 11:42:35 ON 02 APR 2007)

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FULL ESTIMATED COST	244.12	244.33

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

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ENTRY
-1.46

TOTAL
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-1.46

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10/582,602 (17)
Jermw/h

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LOGINID:SSPTAAL1624

PASSWORD:

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NEWS 4 with preparation role
NEWS 4 DEC 18 CA/Caplus patent kind codes updated
NEWS 5 DEC 18 MARPAT to CA/Caplus accession number crossover limit increased
NEWS 6 to 50,000
NEWS 6 DEC 18 MEDLINE updated in preparation for 2007 reload
NEWS 7 DEC 27 CA/Caplus enhanced with more pre-1907 records
NEWS 8 JAN 08 CHEMIST enhanced with New Zealand Inventory of Chemicals
NEWS 9 JAN 16 CA/Caplus Company Name Thesaurus enhanced and reloaded
NEWS 10 JAN 16 IPC version 2007.01 Thesaurus available on STN
NEWS 11 JAN 16 WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 12 JAN 22 CA/Caplus updated with revised CAS roles
NEWS 13 JAN 22 CA/Caplus enhanced with patent applications from India
NEWS 14 JAN 23 PHAR reloaded with new search and display fields
NEWS 15 JAN 23 CAS Registry Number crossover limit increased to 300,000 in
NEWS 16 multiple databases
NEWS 16 FEB 15 PATDAPSC enhanced with Drug Approval numbers
NEWS 17 FEB 15 RUSSIAPAT enhanced with pre-1994 records
NEWS 18 FEB 23 KOREAPAT enhanced with IPC 8 features and functionality
NEWS 19 FEB 26 MEDLINE reloaded with enhancements
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NEWS 22 FEB 26 IFCDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 23 FEB 26 CAS Registry Number crossover limit increased from 10,000
NEWS 24 to 300,000 in multiple databases
NEWS 24 MAR 15 WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 25 MAR 16 CASREACT coverage extended
NEWS 26 MAR 20 MARPAT now updated daily
NEWS 27 MAR 22 LWPI reloaded
NEWS 28 MAR 30 RDISCLOSURE reloaded with enhancements
NEWS 29 MAR 30 INPADOCDB will replace INPADOC on STN

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.03c(JP),
AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 1 APR 2007 HIGHEST RN 928822-97-3
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=> Uploading C:\Program Files\Stnexp\Queries\10582609.str

L1 STRUCTURE UPLOADED

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SAMPLE SCREEN SEARCH COMPLETED - 8 TO ITERATE
100.0% PROCESSED 8 ITERATIONS
SEARCH TIME: 00.00.01
1 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 8 TO 329
PROJECTED ANSWERS: 1 TO 80

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L2 1 SEA SSS SM L1

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SEARCH TIME: 00.00.01

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FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 11:00:45 ON 02 APR 2007
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FILE LAST UPDATED: 1 Apr 2007 (20070401/ED)

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L4

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L5

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L6 3 L5 AND PY<2004

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L5 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1049864 CAPLUS
DOCUMENT NUMBER: 143:326367

TITLE: Preparation of tricyclic imidazopyridines as inhibitors of gastric acid secretion

INVENTOR(S): Chiesa, M. Vittoria; Zimmermann, Peter Jan; Brehm,

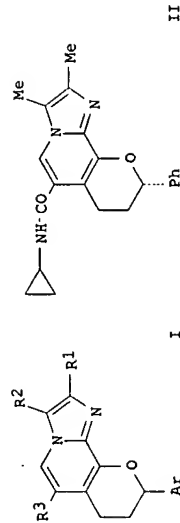
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Christof; Simon, Wolfgang-Alexander; Kromer, Wolfgang;
Postius, Stefan; Palmer, Andreas; Buhr, Wilh
Altana Pharma A.-G., Germany
PCT Int. Appl., 108 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

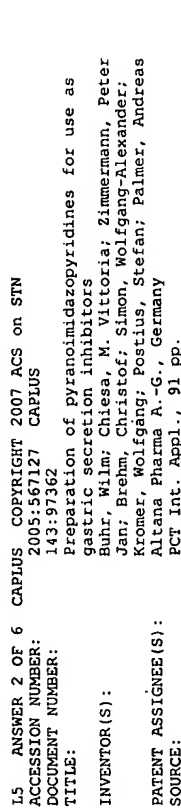
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WO 2005090358	A2	20050929	WO 2005-EP51211	20050316
WO 2005090358	A3	20060126		
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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CA 2559310	A1	20050929	CA 2005-2559310	20050316
EP 1735318	A2	20061227	EP 2005-717076	20050316
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CN 1930171	A	20070314	CN 2005-8006989	20050316
PRIORITY APPLN. INFO.:			EP 2004-101092	A 20040317
			EP 2004-106577	A 20041214
			WO 2005-EP51211	W 20050316
OTHER SOURCE(S):			MARPAT 143:326367	
GI				



AB Tricyclic imidazopyridines of formula I [R1 = H, alkyl, cycloalkyl, alkoxy, etc.; R2 = H, alkyl, cycloalkyl, alkoxy, carbonyl, hydroxyalkyl, OH, (substituted) amino, etc.; R3 = acyl, hydroxyalkyl, alkoxyalkyl, alkoxy, carbonyl, CN, heterocyclyl, etc.; Ar = mono or bicyclic aromatic such as Ph, naphthyl, pyrrolyl, indolyl, furyl, etc.] are prepared which inhibit the secretion of gastric acid. Thus, II was prepared, and showed 100% inhibition of pentagastrin-stimulated acid secretion in rats at 1

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IT	mg/ml/kg i.d. 865452-87-5p	RU: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
RN	865452-87-5	CAPIUS
CN	Imidazo[1,2-a]pyridine-6-carboxamide, 8-hydroxy-7-((3R)-3-hydroxy-3-phenylpropyl)-N,N,2-trimethyl- (9CI)	(CA INDEX NAME)

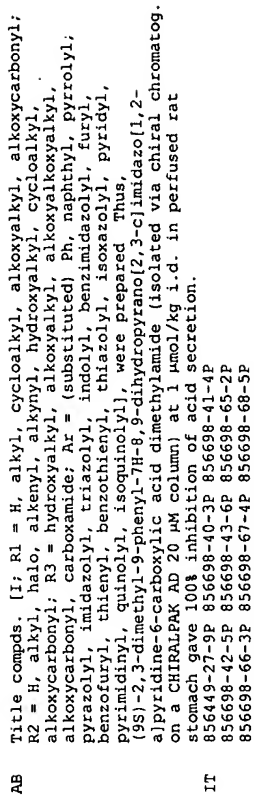


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AU 2004298788	A1	20050630	AU 2004-298788	20041217
CA 2549030	A1	20050630	CA 2004-2549030	20041217
EP 1696921	A1	20060906	EP 2004-804904	20041217
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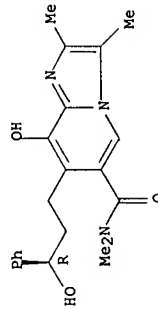
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CN 1889955	A	20070103	BR 2004-80036876	20041217	
BR 200401263	A	20070306	CN 2004-17253	20041217	
US 2007066674	A1	20070322	US 2006-382395	20060630	
NO 2006003220	A	20060711	NO 2006-3220	20060711	
PRIORITY APPEN. INFO.:			EP 2003-29361	A	20061219
			WO 2004-EP53560	W	20041217
OTHER SOURCE(S):		MAREPAT 143:97362			

MARPAT 143:97362



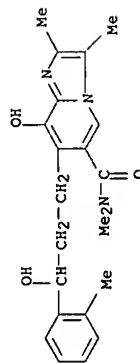
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856449-27-9	CAPUS	(preparation of pyranoimidazopyridines as gastric secretion inhibitors)					
Imidazo[1,2-a]pyridine-6-carboxamide, 8-hydroxy-7-[(3R)-3-hydroxy-3-phenylpropyl]-N,N,2,3-tetramethyl- (9CI)	(CA INDEX NAME)						

Absolute stereochemistry.

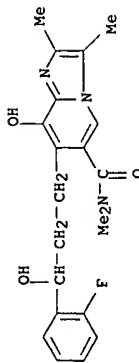


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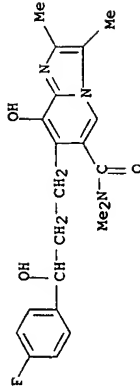
RN 856698-40-3 CAPLUS
CN Imidazo[1,2-a]pyridine-6-carboxamide, 8-hydroxy-7-[3-hydroxy-3-(2-methylphenyl)propyl]-N,N,2,3-tetramethyl- (9CI) (CA INDEX NAME)



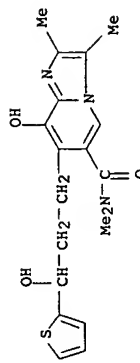
RN 856698-41-4 CAPLUS
CN Imidazo[1,2-a]pyridine-6-carboxamide, 7-[3-(2-fluorophenyl)-3-hydroxypropyl]-8-hydroxy-N,N,2,3-tetramethyl- (9CI) (CA INDEX NAME)



RN 856698-42-5 CAPLUS
CN Imidazo[1,2-a]pyridine-6-carboxamide, 7-[3-(4-fluorophenyl)-3-hydroxypropyl]-8-hydroxy-N,N,2,3-tetramethyl- (9CI) (CA INDEX NAME)



RN 856698-43-6 CAPLUS
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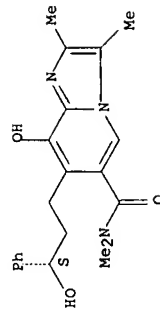


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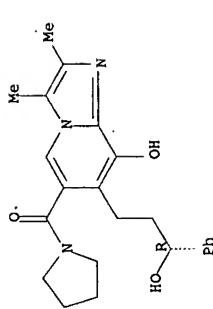
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CN Imidazo[1,2-a]pyridine-6-carboxamide, 8-hydroxy-7-[(3S)-3-hydroxy-3-phenylpropyl]-N,N,2,3-tetramethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



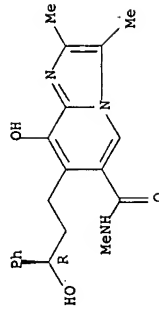
RN 856698-66-3 CAPLUS
CN Pyrrolidine, 1-[[8-hydroxy-7-[(3R)-3-hydroxy-3-phenylpropyl]-2,3-dimethylimidazo[1,2-a]pyridin-6-yl]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 856698-67-4 CAPLUS
CN Imidazo[1,2-a]pyridine-6-carboxamide, 8-hydroxy-7-[(3R)-3-hydroxy-3-phenylpropyl]-N,N,2,3-trimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

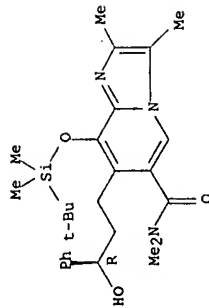


RN 856698-68-5 CAPLUS
CN Imidazo[1,2-a]pyridine-6-carboxamide, 8-[[1,1-dimethylethyl]dimethylsilyloxy]-7-[(3R)-3-hydroxy-3-phenylpropyl]-N,N,2,3-tetramethyl- (9CI) (CA INDEX NAME)

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Absolute stereochemistry.



REFERENCE COUNT: 2

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L5 ANSWER 3 OF 6

CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2005:564666 CAPLUS

DOCUMENT NUMBER:

143:97361

TITLE:

Preparation of imidazopyridines as intermediates for

INVENTOR(S):

Zimmermann, Peter Jan; Brehm, Christof; Chiesa, M. Vittoria; Buhr, Willem; Palmer, Andreas; Nettekoven, Ulrike

PATENT ASSIGNER(S):

Altana Pharma A.-G., Germany

SOURCE:

PCT Int. Appl., 43 pp.

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 2

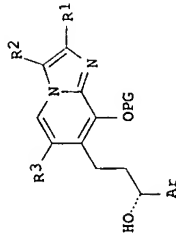
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005058994	A1	20050630	WO 2004-EP3562	20041217
WO 2005058994	A8	20060511		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SI, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, SM			
RW:	BW, GH, GM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, CA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 2004298453	A1	20050630	AU 2004-298453	20041217
CA 2349860	A1	20050630	CA 2004-2549860	20041217
EP 1697358	A1	20060906	EP 2004-804906	20041217
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, FL, SK, IS			
PRIORITY APPLN. INFO.:				
			EP 2003-29361	A 20031219
			EP 2004-103550	A 20040723
			WO 2004-EP3562	W 20041217
OTHER SOURCE(S):			MARPAT 143:97361	

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AB

Title compds. [I; R1 = H, alkyl, cycloalkyl, cycloalkylalkyl, hydroxyalkyl, alkoxyalkyl, alkoxyalkyl, alkoxyalkyl, alkoxyalkyl, fluoroalkyl, R2 = H, alkyl, cycloalkyl, cycloalkylalkyl, alkoxyalkyl, fluoroalkyl, hydroxyalkyl, hydroxyalkyl, halo, alkenyl, alkynyl, fluoroalkyl, cyanoalkyl, alkoxy, etc.; R3 = hydroxyalkyl, alkoxyalkyl, alkoxyalkoxyalkyl, alkoxyalkoxyalkyl, fluoroalkoxyalkyl, imidazoalkyl, tetrazolyl, oxazolyl, etc.; Ar = (substituted) Ph, naphthyl, pyrrolyl, pyrazolyl, imidazolyl, triazolyl, indolyl, benzimidazolyl, furyl, benzofuryl, thienyl, benzothienyl, thiazolyl, isoxazolyl, pyridinyl, pyrimidinyl, quinolinyl, isoquinolinyl; PG = alkyl, alkoxyalkyl, arylalkoxyalkyl, alkoxyalkoxyalkyl, tetrahydropyranyl, tetrahydrofuryl, alkylcarbonyl, arylcarbonyl, silyl, alkylsulfonyl, arylsulfonyl, were prepared. Thus, 8-benzoyloxy-2,3-dimethyl-7-(3-oxo-3-phenylpropyl)imidazo[1,2-a]pyridine-6-carboxylic acid dimethylamide (preparation given), KOCH₃, and RuCl₂[(S)-BINAP][(S)-DAIPEN] in Me₂CHOH were hydrogenated at 40 bar for 22 h to give 79% 8-benzoyloxy-7-[(3R)-3-hydroxy-3-phenylpropyl]-2,3-dimethylimidazo[1,2-a]pyridine-6-carboxylic acid dimethylamide in 74-75% enantiomeric excess.

IT

856449-23-5P 856449-27-9P

RU: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of imidazopyridines as intermediates for dihydropyranoimidazopyridines)

RN

856449-23-5 CAPLUS

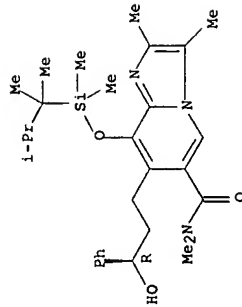
CN

Imidazo[1,2-a]pyridine-6-carboxamide, 8-[[dimethyl(1,1,2-trimethylpropyl)silyloxy]-7-[(3R)-3-hydroxy-3-phenylpropyl]-N,N,2,3-tetramethyl- (3CI) (CA INDEX NAME)

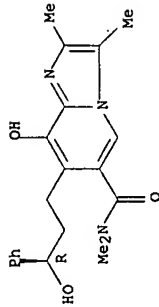
Absolute stereochemistry.

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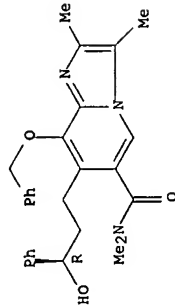
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RN 856449-27-9 CAPLUS
CN Imidazo[1,2-a]pyridine-6-carboxamide, 8-hydroxy-7-[(3R)-3-hydroxy-3-phenylpropyl]-N,N,2,3-tetramethyl- (9CI) (CA INDEX NAME)
Absolute stereochemistry.



IT 856449-21-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(Preparation of imidazopyridines as intermediates for dihydropyranimidazopyridines)
RN 856449-21-3 CAPLUS
CN Imidazo[1,2-a]pyridine-6-carboxamide, 7-[(3R)-3-hydroxy-3-phenylpropyl]-N,N,2,3-tetramethyl-8-(phenylmethoxy)- (9CI) (CA INDEX NAME)
Absolute stereochemistry.



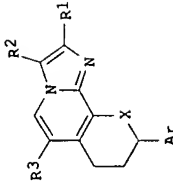
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L5 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

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2003:133276 CAPLUS
138:187769
Preparation of pyranoimidazopyridines for treatment of gastrointestinal disorders.
Zimmermann, Peter Jan; Simon, Wolfgang-Alexander; Postius, Stefan; Kromer, Wolfgang; Buhr, Wilfried; Sem-Bilfinger, Joerg
Altana Pharma AG, Germany
PCT Int. Appl., 33 pp.
CODEN: PIXXD2
Patent
English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003014123	A1	20030220	WO 2002-EP8505	20020731
W: AE, AL, AU, BA, BR, CA, CN, CO, CU, DZ, EC, GE, HR, HU, ID, IL, IN, IS, JP, KR, LT, LV, MA, MK, MX, NO, NZ, PH, PL, RO, SG, SI, TN, UA, US, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: AT, BE, BG, CH, CI, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR				
CA 2452803	A1	20030220	CA 2002-2452803	20020731
EP 1419163	A1	20040519	EP 2002-794528	20020731
EP 1419163	B1	20050615		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
CN 1541219	A	20041027	CN 2002-815601	20020731
JP 2005504761	T	20050217	JP 2003-519072	20020731
BR 2002011826	A	20050628	BR 2002-11826	20020731
AT 237931	T	20050715	AT 2002-794528	20020731
HU 200500330	A2	20050728	HU 2005-330	20020731
NZ 531520	A	20051028	NZ 2002-531520	20020731
PT 1419163	T	20051031	PT 2002-794528	20020731
ES 2243788	T3	20051201	ES 2002-2794528	20020731
IN 2003MN01151	A	20050218	IN 2003-MN1151	20031218
US 2005049272	A1	20050303	US 2004-485515	20040202
ZA 2004000918	A	20050420	ZA 2004-918	20040204
NO 2004000604	A	20040210	NO 2004-604	20040210
HK 1066213	A1	20051125	HK 2004-109042	20041116
PRIORITY APPL. INFO.:			EP 2001-119321	20010810
OTHER SOURCE(S):			WO 2002-EP8505	20020731
GI				
			WO 2002-EP8505	20020731



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AB Title compds. [I; R1 = H, alkyl, cycloalkyl, cycloalkylalkyl, alkoxy, alkoxyalkyl, alkoxyalkyl, alkenyl, alkynyl, fluoroalkyl, hydroxyalkyl, halo, alkenyl, alkynyl, fluoroalkyl, cyanomethyl; R3 = hydroxyalkyl, alkoxyalkyl, alkoxyalkoxyalkyl, alkoxyalkyl, fluoroalkoxyalkyl, aminocarbonyl; Ar = (substituted) Ph, naphthyl, pyrrolidyl, thiazolyl, imidazolyl, triazolyl, thienyl, furyl, benzofuryl, benzothienyl, thiazolyl, isoxazolyl, pyridinyl, pyrimidinyl, quinolinyl, isoquinolinyl], were prepared. Thus, 2,3-dimethyl-8-hydroxy-7-[(3-phenyl-3-hydroxypropyl)-N,N-diethylimidazo[1,2-a]pyridine-6-carboxamide (preparation given) was stirred with BF₃·Et₂O in CH₂Cl₂ for 4 h to give N,N-diethyl-2,3-dimethyl-9-phenyl-7H-8,9-dihydropyrano[2,3-c]imidazo[1,2-a]pyridine-6-carboxamide. The latter at 3.0 mmol/kg in rats gave 100% inhibition of gastric acid secretion.

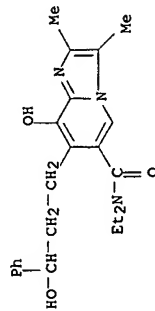
IT 498529-45-6P, 2,3-Dimethyl-8-hydroxy-7-(3-phenyl-3-hydroxypropyl-1-yl)-N,N-diethylimidazo[1,2-a]pyridine-6-carboxamide 498529-49-0P, Ethyl 2,3-dimethyl-7-(3-hydroxy-3-phenylpropan-1-yl)-8-hydroxyimidazo[1,2-a]pyridine-6-carboxylate 498529-54-7P, 2,3-Dimethyl-7-(3-hydroxy-3-phenylpropan-1-yl)-8-hydroxy-N,N-dimethylimidazo[1,2-a]pyridine-6-carboxamide

RU: RCI (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of pyranimidazopyridines for treatment of gastrointestinal disorders)

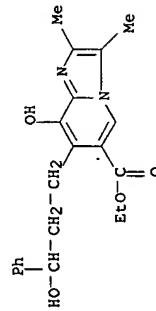
RN 498529-45-6 CAPLUS

CN Imidazo[1,2-a]pyridine-6-carboxamide, N,N-diethyl-8-hydroxy-7-(3-hydroxy-3-phenylpropyl)-2,3-dimethyl- (9CI) (CA INDEX NAME)



RN 498529-49-0 CAPLUS

CN Imidazo[1,2-a]pyridine-6-carboxylic acid, 8-hydroxy-7-(3-hydroxy-3-phenylpropyl)-2,3-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



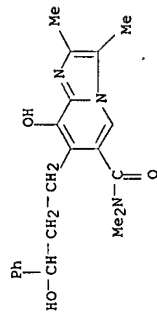
RN 498529-54-7 CAPLUS

CN Imidazo[1,2-a]pyridine-6-carboxamide, 8-hydroxy-7-(3-hydroxy-3-

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phenylpropyl)-N,N,2,3-tetramethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

I5 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:996647 CAPLUS

DOCUMENT NUMBER: 124:176092

TITLE: Preparation of 3-hydroxymethylidihydropyrano[2,3-c]imidazo[1,2-a]pyridines as gastric acid secretion inhibitors

INVENTOR(S): Braving, Carin Birgitta; Nordberg, Mats Peter; Starke, Carl Ingemar

PATENT ASSIGNEE(S): Astra AB, Swed.

SOURCE: PCT Int. Appl., 62 pp.

DOCUMENT TYPE: Patent

LANGUAGE: English

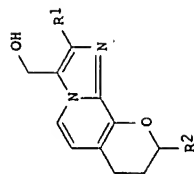
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

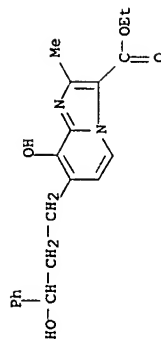
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9527714	A1	19951019	WO 1995-SE376	19950407
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GN, ML, MR, NE, SN, TD, TG				
IN 1995DE00561	A	20050311	IN 1995-DE561	19950328
ZA 9502860	A	19960112	ZA 1995-2860	19950406
AU 9522706	A	19951030	AU 1995-22706	19950407
SE 1994-1197			SE 1994-1197	19940411
WO 1995-SE376			WO 1995-SE376	19950407
OTHER SOURCE(S):				
GI				

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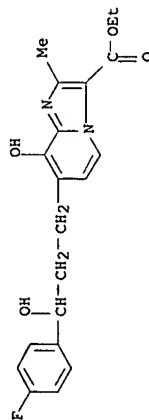
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AB Title compds. [I; R1 = Me or Et; R2 = (un)substituted Ph] were prepared
 Thus, Et 8-benzoyloxy-2-methylimidazo[1,2-a]pyridine-3-carboxylate was
 converted in 6 steps to I (R1 = Me, R2 = Ph) which had ED50 of
 1.8µmol/kg intraduodenally for inhibition of pentagastrin and
 carbachol-induced gastric acid secretion in rats.
 IT 173530-76-2P 173530-79-5P 173530-83-1P
 173530-86-4P
 RL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation): RACT
 (Reactant or reagent)
 (preparation of 3-hydroxymethylidihydropyrano[2,3-c]imidazo[1,2-a]pyridines
 as gastric acid secretion inhibitors)
 RN 173530-76-2 CAPLUS
 CN Imidazo[1,2-a]pyridine-3-carboxylic acid, 8-hydroxy-7-(3-hydroxy-3-
 phenylpropyl)-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 173530-79-5 CAPLUS
 CN Imidazo[1,2-a]pyridine-3-carboxylic acid, 7-[3-(4-fluorophenyl)-3-
 hydroxypropyl]-8-hydroxy-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)

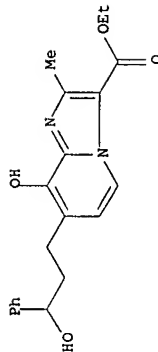


RN 173530-83-1 CAPLUS
 CN Imidazo[1,2-a]pyridine-3-carboxylic acid, 8-hydroxy-7-(3-hydroxy-3-

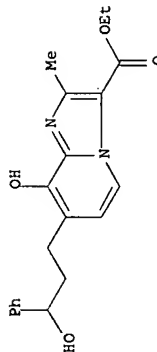
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phenylpropyl)-2-methyl-, ethyl ester, (-)-(9CI) (CA INDEX NAME)
 Rotation (-).



RN 173530-86-4 CAPLUS
 CN Imidazo[1,2-a]pyridine-3-carboxylic acid, 8-hydroxy-7-(3-hydroxy-3-
 phenylpropyl)-2-methyl-, ethyl ester, (+)-(9CI) (CA INDEX NAME)
 Rotation (+).



L5 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1985:6490 CAPLUS
 DOCUMENT NUMBER: 102:6490
 TITLE: Antiulcer tricyclic imidazo[1,2-a]pyridines
 INVENTOR(S): Gold, Elijah H.; Kaminski, James J.; Puchalski,
 Chester
 PATENT ASSIGNEE(S): Schering Corp., USA
 SOURCE: U.S., 8 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4468400	A	19840828	US 1982-450862	19821220
PRIORITY APPL. INFO.: CASREACT 102:6490; MARPAT 102:6490			US 1982-450862	19821220
OTHER SOURCE(S):				
GI For diagram(s), see printed CA issue.				
AB Tricyclic imidazopyridines I [R = H, alkyl, halo, HO, alkoxy, CF3; R1 = pyridyl, thienyl, imidazolyl, furanyl, (un)substituted Ph; R2 = OH, alkyl, hydroxyalkyl, R3 = H, alkyl, CH2CN, hydroxyalkyl, NO, CH2NC, NR4R5; R4, R5 = H, alkyl; Z = nonarom. 5- or 6-membered carbocycle, heterocycle; n = 0, 1, 2], useful in the treatment of peptic ulcer diseases (no data), were prepared Thus, imidazopyridineacetoneitrile II (R6 = H) was condensed with				

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Me₂N⁺:CH₂I⁻ to give II (R₆ = Me₂NCH₂), which was treated with PhR₇C:CH₂ (R₇ = 4-morpholinyl) and hydrolyzed to give II (R₆ = PhCOCH₂CH₂). The latter compound was reduced with NaBH₄ to give the diol which was cyclized with BF₃·OEt₂ to give pyranolimidazopyridine III.

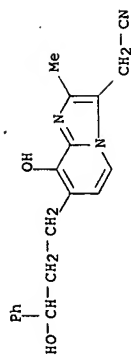
IT 93749-60-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization of)

RN 93749-60-1 CAPIUS

CN Imidazo[1,2-a]pyridine-3-acetonitrile, 8-hydroxy-7-(3-hydroxy-3-phenylpropyl)-2-methyl- (9CI) (CA INDEX NAME)



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